



Jefferson Lab Alignment Group

Data Transmittal

TO: J.P. Chen, D Meekins, J. LeRose

DATE: 28 Jan 2008

FROM: J. Dahlberg

Checked: cjc

: A1154

DETAILS:

Data: Step2b\halla\target\2008\080118a, 080118b

Below are the results of the recent Hall A target post run survey along with the survey performed on the new solid target for the E05-110 run. A +X is beam left from ideal target centerline, a +Y is above, and a +Z is downstream. A +pitch is counter clockwise looking from the beam right, a +yaw is ccw from above, and a +roll is cw looking from upstream. Values are in millimeters and degrees. The coordinates for the new solid targets are calculated to the center of each target foil.

Note: There is a considerable difference between the current locations of the target cells and the previous locations prior to the run on Oct 25, 2007(DT # A1133).

POST RUN SURVEY

COMPONENT	Z	X	Y	Yaw	Pitch	Roll
Racetrack tgt	2.04	3.29	-1.66	0.01°	0.10°	0.13°
L2 Target block (top):						
L2 Top cell CL	1.64	4.32	-1.70	-0.22°	0.07°	
L2 Bot. cell CL	1.78	5.11	-1.71	-0.14°	0.07°	
L3 Target block (bot):						
L3 Top cell CL	2.30	5.07	-1.13	-0.36°	0.22°	
L3 Bot. cell CL	2.65	5.40	-1.59	-0.		
49°	0.12°					
Top lower solid target:				-51.65°	-0.03°	
Bot lower solid target:				48.60°	0.38°	

NEW SOLID TARGET

COMPONENT	Z	X	Y	Yaw	Pitch
S1 (Top)	1.71	-0.02	-0.24	-0.33°	-0.14°
S2	0.78	-2.25	-0.12	-30.38°	-0.43°
S3	0.89	-2.07	-0.10	-30.36°	-0.43°
S4 (Bot)	0.79	-1.63	-0.16	-30.44°	-0.50°